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DATE: 5/12/2004
TO: Examiner Thuan Do
COMPANY: USPTO
FROM: Elena Saqellari
PAGES: 20 (including this page)

Examiner Thuan Do:

For the application S/N 10/076,121, we received a Notice of Allowance mailed on 4/8/2004. Thank you for this Notice of Allowance. However, please note that we submitted two IDS's prior to the Notice of Allowance on 3/24/2004. These IDS's were not made of record. We are including 1449 Forms along with the return receipt postcards from these IDS's in this fax. Please review the references and make them of record by initialing and signing these 1449 Forms. If you have any questions, please call me at the number below.

Regards,

Elena Saqellari

Stattler, Johansen & Adeli LLP
P.O. Box 51860
Palo Alto, CA 94303-0728

Phone No. (650) 752-0990 x110
Fax No. (650) 752-0995

prior submitted on 3/24/04

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 Approved for use through 05/31/2003. OMB 0651-0031
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449A/PTO				Application Number		10/076,121	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date		2/12/02	
				First Named Inventor		Steven Teig	
				Group Art Unit		Do, Thuan	
				Examiner Name		2825	
				Attorney Docket Number		SPLX.P0081	
Sheet	1	of	13				
U.S. PATENT DOCUMENTS							
Examiner's Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	1.	2002/0100009	A1	07-25-2002	Xing et al.		
	2.	2002/0104061	A1	08-01-2002	Xing et al.		
	3.	2002/0107711	A1	08-08-2002	Xing et al.		
	4.	2002/0182844	A1	12-05-2002	Igarashi et al.		
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	6.	2003/0188281	A1	10-02-2003	Xing		
	7.	4,615,011		09-30-1986	Linsker		
	8.	4,782,193		11-01-1988	Linsker		
	9.	5,633,479		05-27-1997	Hirano		
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	11.	5,635,736		06-03-1997	Funaki et al.		
	12.	6,128,767		10-03-2000	Chapman		
	13.	6,219,823	B1	04-17-2001	Hama et al.		
	14.	6,226,560	B1	05-01-2001	Hama et al.		
	15.	6,262,487	B1	07-17-2001	Igarashi et al.		
	16.	6,295,634	B1	09-25-2001	Matsumoto		
	17.	6,436,804	B2	08-20-2002	Igarashi et al.		
	18.	6,490,713	B2	12-03-2002	Matsumoto		
	19.	6,546,540	B1	04-08-2003	Igarashi et al.		
	20.	6,645,842	B2	11-11-2003	Igarashi et al.		
Examiner Signature					Date Considered		

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This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				Group Art Unit		Do, Thuan	
				Examiner Name		2825	
Sheet	2	of	13	Attorney Docket Number		SPLX.P0081	
U.S. PATENT DOCUMENTS							
	21.	2001/0003 843	A1	06-14-2001	Scepanovich et al.		
	22.	2002/0174 413	A1	11-21-2002	Tanaka		
	23.	2003/0025 205	A1	02-06-2003	Shively		
	24.	2003/0121 017	A1	06-26-2003	Andreev et al.		
	25.	4,673,966		06-16-1987	Shimoyama		
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	34.	5,637,920		06-10-1997	Loo		
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	40.	5,723,908		03-03-1998	Fuchida et al.		
	41.	5,742,086		04-21-1998	Rostoker et al.		

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				First Named Inventor		Steven Teig
				Group Art Unit		Do, Thuan
				Examiner Name		2825
Sheet	3	of	13	Attorney Docket Number		SPLX.P0081
U.S. PATENT DOCUMENTS						
	42.	5,757,089		05-26-1998	Ishizuka	
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Examiner Signature				Date Considered		

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				Group Art Unit		Do, Thuan	
				Examiner Name		2825	
Sheet	4	of	13	Attorney Docket Number		SPLX.P0081	
U.S. PATENT DOCUMENTS							
66.	6,209,123	B1	03-27-2001	Maziasz et al.			
67.	6,216,252	B1	04-10-2001	Dangelo et al.			
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69.	6,230,306	B1	05-08-2001	Raspopovic et al.			
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71.	6,253,363	B1	06-26-2001	Gasarov et al.			
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76.	6,324,674	B2	11-27-2001	Andreev et al.			
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82.	6,365,958	B1	04-02-2002	Ibnabdeljalil et al.			
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85.	6,401,234	B1	06-04-2002	Alpert et al.			
86.	6,405,358	B1	06-11-2002	Nuber			
87.	6,407,434	B1	06-18-2002	Rostoker et al.			
88.	6,412,097	B1	06-25-2002	Kikuchi et al.			
89.	6,412,102	B1	06-25-2002	Andreev et al.			
Examiner Signature				Date Considered			

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				Group Art Unit		Do, Thuan
				Examiner Name		2825
Sheet	5	of	13	Attorney Docket Number		SPLX.P0081
U.S. PATENT DOCUMENTS						
	90.	6,463,575	B1	10-08-2002	Takahashi	
	91.	6,473,891	B1	10-29-2002	Shively	
	92.	6,512,292	B1	01-28-2003	Armburst et al.	
	93.	6,519,751	B2	02-11-2003	Sriram et al.	
	94.	6,526,555	B1	02-25-2003	Teig et al.	
	95.	6,543,043	B1	04-01-2003	Wang et al.	
	96.	6,557,145	B2	04-29-2003	Boyle et al.	
	97.	6,567,967	B2	05-20-2003	Greidinger et al.	
	98.	6,586,281	B1	07-01-2003	Gabara et al.	
	99.	6,615,400	B1	09-02-2003	Lukanc	

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. ¹	Foreign Patent Document		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ²	Number ³				
	100.	JP	11-296560		10-29-1999	Matsumoto et al.	with English translation of Abstract;
	101.	JP	2000-082743	A	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.
	102.	JP	64-15947		01-19-1989	Ouchi	with English translation of Abstract;
	103.	JP	03-173471		07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English

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Sheet	6	of	13				
FOREIGN PATENT DOCUMENTS							
	104	JP	04-000677	01-06-1992	Fujiwara et al.	translation of the application. with English translation of Abstract;	
	105	JP	05-102305	04-23-1993	Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	106	JP	05-243379	09-21-1993	Kubota	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	107	JP	07-086407	03-31-1995	Miura	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
	108	JP	09-162279	06-20-1997	Yoshida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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Sheet	7	of	13
		Attorney Docket Number	SPLX.P0081

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
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				First Named Inventor	Steven Teig
				Group Art Unit	Do, Thuan
				Examiner Name	2825
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NON PATENT LITERATURE DOCUMENTS					
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	199.	Yan et al., Three-Layer Bubble-Sorting -Based Non-Manhattan Channel Routing, ACM Transactions on Design Automation of Electronic Systems, Vol. 5, No. 3, July 2000, pp.726-734.			
	200.	Zhou, H. et al., An Optimal Algorithm for River Routing with Crosstalk Constraints, 1996			
	201.	Zhou, H. et al., Optimal River Routing with Crosstalk Constraints, ACM Transactions on Design Automation of Electronic Systems, vol. 3, No. 3, July 1998, pp. 496-514.			

Examiner Signature		Date Considered	
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Serial No.: 10/076,121
Filing Date: 2/12/02
Atty Docket: SPLX.P0081
Applicant(s): Steven Teig

Atty/Sec'y: MA/ES
Date Mailed: 3/24/2004

TITLE: Method and Apparatus for Generating Multi-Layer Routes

The following has been received by the U.S. Patent & Trademark Office on the date stamped hereon:

1. Transmittal Form
2. Information Disclosure Statement (2 pages)
3. Form PTO-1449 (13 pages)
4. (201) cited references
5. Credit Card Payment Form



prior submitted on 3/24/04.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/076,121
				Filing Date	2/12/2002
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Do, Thuan
Sheet	1	of	4	Attorney Docket Number	SPLX.P0081

RELATED U.S. PATENT APPLICATIONS						
Examiner* Initials	Cite No.	U.S. Patent Application		Name of Patentee or Applicant of Cited Document	Date of Filing MM-DD-YYYY	Related Application Data
		Serial Number	Attorney Docket Number			
	1.	10/066,060	SPLX.P0072	Steven Teig	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	2.	10/066,160	SPLX.P0073	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	3.	10/066,095	SPLX.P0074	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	4.	10/066,047	SPLX.P0078	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	5.	10/061,641	SPLX.P0079	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	6.	10/066,094	SPLX.P0080	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	7.	10/062,995	SPLX.P0105	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	8.	10/066,102	SPLX.P0106	Steven Teig	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	9.	10/066,187	SPLX.P0133	Steven Teig et al.	01-31-2002	Application with similar, but not identical, specification and drawings as the present application.
	10.	10/228,736	CDN.P0001	Steven Teig	08-26-2002	CIP of the present application
	11.	10/229,311	CDN.P0002	Steven Teig	08-26-2002	CIP of the present application
	12.	10/229,108	CDN.P0003	Steven Teig	08-26-2002	CIP of the present application
	13.	10/215,563	CDN.P0004	Steven Teig	08-09-2002	CIP of the present application
	14.	10/215,896	CDN.P0005	Steven Teig	08-09-2002	CIP of the present application

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				Filing Date	2/12/2002
				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Do, Thuan
Sheet	2	of	4	Attorney Docket Number	SPLX.P0081

RELATED U.S. PATENT APPLICATIONS						
	15.	10/219,675	CDN.P0006	Steven Teig	08-14-2002	CIP of the present application
	16.	10/219,608	CDN.P0007	Steven Teig	08-14-2002	CIP of the present application
	17.	10/233,202	CDN.P0008	Steven Teig	08-28-2002	CIP of the present application.
	18.	10/229,196	CDN.P0009	Steven Teig	08-26-2002	CIP of the present application.
	19.	10/288,870	CDN.P0010	Steven Teig	11-06-2002	Continuation of the present application.
	20.	10/219,923	CDN.P0011	Steven Teig	08-14-2002	CIP of the present application
	21.	10/286,254	CDN.P0012	Steven Teig	10-31-2002	CIP of the present application
	22.	10/219,706	CDN.P0013	Steven Teig	08-14-2002	CIP of the present application
	23.	10/231,423	CDN.P0014	Steven Teig	08-28-2002	CIP of the present application
	24.	10/230,503	CDN.P0015	Steven Teig	08-28-2002	CIP of the present application
	25.	10/222,088	CDN.P0016	Steven Teig	08-14-2002	CIP of the present application
	26.	10/228,679	CDN.P0017	Steven Teig	08-26-2002	CIP of the present application
	27.	10/229,202	CDN.P0018	Steven Teig	08-26-2002	CIP of the present application
	28.	10/229,170	CDN.P0019	Steven Teig	08-26-2002	CIP of the present application
	29.	10/286,630	CDN.P0020	Steven Teig	10-31-2002	CIP of the present application
	30.	10/230,504	CDN.P0021	Steven Teig	08-28-2002	CIP of the present application
	31.	10/215,923	CDN.P0022	Steven Teig	08-09-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	32.	10/226,483	CDN.P0023	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	33.	10/226,774	CDN.P0024	Steven Teig	08-23-2002	Application that describes alternative path search technology to the path search technology described in the present application.
	34.	10/232,795	CDN.P0025	Steven Teig	08-28-2002	Application that describes alternative path search technology to the path search

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				First Named Inventor	Steven Teig
				Group Art Unit	2825
				Examiner Name	Do, Thuan
Sheet	3	of	4	Attorney Docket Number	SPLX.P0081

RELATED U.S. PATENT APPLICATIONS						
						technology described in the present application.
35.	10/231,369	CDN.P0026	Steven Teig	08-28-2002		Application that describes alternative path search technology to the path search technology described in the present application.
36.	10/233,312	CDN.P0027	Steven Teig	08-28-2002		Application that describes alternative path search technology to the path search technology described in the present application.
37.	10/227,016	CDN.P0028	Steven Teig	08-23-2002		Application that describes alternative path search technology to the path search technology described in the present application.
38.	10/226,482	CDN.P0029	Steven Teig	08-23-2002		Application that describes alternative path search technology to the path search technology described in the present application.
39.	10/285,844	CDN.P0030	Steven Teig	10-31-2002		Application that describes alternative path search technology to the path search technology described in the present application.
40.	10/286,253	CDN.P0031	Steven Teig	10-31-2002		Application that describes alternative path search technology to the path search technology described in the present application.
41.	10/288,033	CDN.P0032	Steven Teig	11-05-2002		Application that describes alternative path search technology to the path search technology described in the present application.
42.	10/335,179	CDN.P0033	Steven Teig	12-31-2002		Application that describes alternative path search technology to the path search technology described in the present application.
43.	10/285,758	CDN.P0035	Steven Teig	10-31-2002		Application that describes alternative path search technology to the path search technology described in the present application.

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RELATED U.S. PATENT APPLICATIONS						
44.	10/286,598	CDN.P0036	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	
45.	10/286,584	CDN.P0037	Steven Teig	10-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	
46.	10/335,074	CDN.P0066	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	
47.	10/334,665	CDN.P0067	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	
48.	10/335,243	CDN.P0068	Steven Teig et al.	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	
49.	10/335,062	CDN.P0069	Steven Teig	12-31-2002	Application that describes alternative path search technology to the path search technology described in the present application.	

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Filing Date: 2/12/02
Atty Docket: SPLX.P0081
Applicant(s): Steven Teig

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